

MEDVEDEV, S.S.; ABBIN, A.D.; KHOMIKOVSKIY, P.M.; GERASIMOV, G.N.; GROMOV,
V.F.; CHIKIN, Yu.A.; TSINGISTER, V.A.; AIGER, A.L.; YAKOVLEVA, N.K.;
MEZHIROVA, L.P.; MATVYIEVA, A.V.; BEZZUBIK, Z.G.

Polymerisation of ethylene by means of γ -radiation. Vysokom.socd.
2 no.6:904-915 Je '60. (MIRA 13:6)

1. Fiziko-khimicheskiy institut imeni L.Ya.Karpova.
(Ethylene) (Polymerization) (Radiation)

ACCESSION NR: AP4012181

S/0191/64/000/002/0003/0006

AUTHORS: Abkin, A. D.; Auer, A. L.; Breger, A. Kh.; Vaynshteyn, B. I.; Voropayev, Yu. V.; Gol'din, V. A.; Gromov, V. F.; Osipov, V. B.; Syrkuus, N. P.; Ushakov, V. D.; Khomikovskiy, P. M.; Tsingister, V. A.; Chikin, Yu. A.

TITLE: Radiation polymerization of ethylene in enlarged laboratory apparatus.

SOURCE: Plasticheskiye massy*, no. 2, 1964, 3-6

TOPIC TAGS: ethylene, radiation polymerization, reactor design, reactor surface area, reaction rate, polymer yield, reactor temperature field

ABSTRACT: Radiation polymerization of ethylene was conducted in laboratory reactors of 1-2 liter capacity (fig. 1 & 2). Based on tolerances admitted in this work, it was found that the temperature field can be calculated with sufficient accuracy. Comparison of reaction rates and yield of ethylene polymer shows that these factors are independent of the specific surface of the reaction space. Thus

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2

ACCESSION NR: A14012181

commercial scale apparatus can be designed by estimating the process rate and yield dependence on pressure, temperature and dosage rate without concern for specific surface area of the reactor.
Orig. art. has: 1 Table and 5 Figures

ASSOCIATION: None

SUBMITTED: 00

DATE ACQ: 26Feb64

ENCL: 02

SUB CODE: MA

MR REF Sov: 005

OTHER: 003

Card 2/4

ACCESSION NR: A14020709

S/0000/63/00/000/0208/0212

AUTHOR: Sheynker, A. P.; Yarov, A. S.; Auer, A. L.; Abkin, A. D.

TITLE: Investigation of the radiation-induced polymerization of methylmethacrylate and butadiene at temperatures above and below their melting points

SOURCE: Karbotsevnye vysokomolekulyarnye soyedineniya (Carbon-chain macro-molecular compounds); sbornik statey. Moscow, Izd-vo AN SSSR, 1963, 208-212

TOPIC TAGS: polymerization, radiation polymerization, ethyl chloride, butadiene, methylmethacrylate, isotactic polymer, syndiotactic polymer, cryostat, low temperature polymerization

ABSTRACT: The effect of temperature on the rate of polymerization of methylmethacrylate and butadiene under the influence of x-rays from cobalt-60 was investigated over a wide range (from 20 to +100 for methylmethacrylate and from 0 to -196°C for butadiene). The rate of polymerization of methylmethacrylate decreased with decreasing temperature. The molecular weight of methylmethacrylate polymers also decreased with decreasing temperature of polymerization from 19 to -50°C. However, during the polymerization of methylmethacrylate in the solid phase close to the melting point of the monomer, the molecular weight increased considerably. Density data on polymethylmethacrylate showed that at -50 and -60°C an isotactic-

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ACCESSION NR: AT4020709

syndiotactic block polymer is formed. The rate of polymerization of butadiene under the same conditions was higher at -78C than at either 0 or -196C. The rate of polymerization of butadiene increased considerably in the presence of ethyl chloride. A cryostat of special construction used for the experiments is described and illustrated. "The authors thank S. P. Trembacheva and L. G. Krylova for their participation in the experiments." Orig. art. has: 5 figures.

ASSOCIATION: Fiziko-khimicheskiy Institut im. L. Ya. Karpova (Physico-Chemical Institute)

SUBMITTED: 28Jun62

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: OC

NO REF Sov: 004

OTHER: 009

Card 2/2

AUER, J.

Mine ladders made of silon cables. p. 291. (RUDI, Vol. 5, No. 3, Aug 1957.
Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

AUER, Richard, mernok, iranyito tervező; CSIZMAS, Zoltan, mernok, iranyito
tervező; NEMETH, Sandor, mernok, iranyito tervező

Water supply of Aggtelek. Vizugyi kozl no.1:142-150 '64.

1, No. 2. Planning Division of Hydraulic Engineering, Road and
Railroad Planning Enterprise, Budapest.

AUER, J.

"Use of hydraulic machinery in Soviet mines." (To be contd.)
Uhli, Praha, Vol 3, No 5, May 1953, p. 150

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0

AUER, J.

"Use of hydraulic machinery in Soviet mines."
Uhli, Praha, Vol 3, No 6, June 1953, p. 183

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0"

AUER, J.

"Plan of technical development."
Uhli, Praha, Vol 3, No 9, Sept. 1953, p. 244

SO: Eastern European Accessions List, Vol 3, No 10, Oct 1954, Lib. of Congress

AUER, J.

"Use of hydraulic machinery in underground coal mining." (p. 91). UHLI
(Ministerstvo paliv a energitiky) Praha, Vol 4, No 3, Mar. 1954.

SO: East European Accessions List, Vol 3, No 8, Aug 1954.

AUER, J.

How to reach better results in the wall system. p. 278.
UHLI, Prague, Vol. 4, no. 9, Sept. 1954.

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 5, No. 6,
June 1956, Uncl.

MARKO, Elek, okleveles mernok; AUER, Richard, okleveles mernok

Water supply of the village of Tihany and its recreation center. Vizugyi kozl no.4:520-527 '61..

1. Vizugyi Tervezo Iroda osztalyvezetője (for Marko).
2. Ut-Vasuttervező Vallalat Vizosztalyanak irányító tervezője (for Auer).

AUER, V.

AUER, V. Comparison of the Schlumberger and Wenner methods of resistance measurement. p. 213.

Vol. 13, no. 1/4, 1954, Budapest, Hungary KOZLEMENYET

SO: Monthly List of East European Accessions, (EFAL), LC, Vol. 5, No. 3,
March, 1956

AUERBAKH, Edit Ivanovna
АУЕРБАХ

Changes of Nerve Apparatus of the Stomach Concerning the so-called
(Gennatogennych) Gastrics and Experimental (?nitricity?) (Azotemii)

Dissertation for candidate of Medical Science degree. Chair of Hospital
Therapeutics (head, Prof. L.S. Shuarts) Saratov Medical Institute, 1954

+ P 78

27102
P/008/60/000/006/002/004
D219/D305

26.2122

AUTHOR:

Auerbach, Irena, Master of Engineering

TITLE:

Selecting a method for computing vibration frequency
in turbine engine blades

PERIODICAL:

Technika lotnicza, no. 6, 1960, 169-174

TEXT: The article gives elementary and more advanced methods (Rayleigh, Ritz, Myklestad and Rayleigh with auxiliary tables by Biroer) of natural frequency calculations. The main sources causing vibrations are given as: Irregularities of flow caused by stator blades and struts, non-uniform efficiencies of blades caused by technological faults, and bad mass balance. The discussion is limited to bending, low frequency oscillations which neglect the twist of the blade. The first case considered is that of a weightless blade, cantilevered at the root and loaded with a concentrated force at the free tip, for which the static equilibrium equation is written down and the natural frequency found. Rayleigh's correc-

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L219/D305

Selecting a method...

ponding formula for a blade with uniformly distributed mass is quoted. Then the author continues with Timoshenko's formula for static natural frequencies for a uniformly tapering blade, uniformly tapering with a superimposed sinusoidal variation and finally gives the approximate frequency for an arbitrarily tapering blade. A formula is given for the dynamic frequencies which include effects of centrifugal forces and variations in temperature. The next method described is that due to Rayleigh which permits calculation of dynamic frequencies of a blade with a variable section. Starting with the energy equation, the author gives a general expression for its components (for chosen modes of deflection) substitutes into the energy equation and solves it for the unknown frequency. The Rayleigh-Ritz method is illustrated with an example of vibrating string. Here the mode of vibration is represented by arbitrary functions, satisfying boundary conditions, whose coefficients are found from the condition giving minimum frequency. The application of the method to vibrating blades, the author continues, can be made by including the centrifugal force into the energy equation.

Card 2/4

27102
P/008/60/000/006/002/004
D219/D305

Selecting a method...

In the Myklestad method the natural frequencies are found from zero values of the frequency function which represents forced vibrations. Here the blade is divided into a number of segments which are loaded by inertia forces. From slope and deflection equations at the nodal points the amplitude coefficients and the frequency function are obtained. This method gives small accuracy and is a labor-consuming one. Rayleigh's method with auxiliary tables by Birger is given by the static frequency expressed in Rayleigh's formula, for blade parameters at the root, multiplied by factor λ , which can be obtained from the table given. The author compares frequencies found by the above methods, for given numerical cases, and compares them with experimental results: Rayleigh-Ritz method - 645/sec, Rayleigh-Birger - 625/sec, Myklestad - 506/sec, experimental frequencies (for a number of blades) between 580-624/sec. The author concludes that the Rayleigh method with auxiliary tables by Birger is the easiest and least labor-consuming and gives as good an accuracy as the other methods. The dynamic frequencies can be obtained by substituting the static frequencies into the formula

Card 3/4

Selecting a method...

27102
P/008/60/000/006/002/004
D219/D305

mentioned above. There are 5 figures, 1 table and 5 references; 2 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: N.O. Myklestad - Vibration Analysis; S.P. Timoshenko - Vibration Problems in Engineering; A.I. Marlin - Approximation for the Effect of Twist on the Vibration of a Turbine Blade (The Aeronautical Quarterly, August 1957, vol. VIII)

Card 4/4

P/008/62/000/005/001/003
D265/D308

AUTHOR: Auerbach, Irena, Master of Engineering

TITLE: Experimental methods of finding the frequency of natural vibrations of turbine blades

PERIODICAL: Technika lotnicza, no. 5, 1962, 135 - 137

TEXT: The method of natural frequency measurements using the oscillograph type MPO - 2 of Soviet manufacture is described (these oscillographs record on a 35 mm film up to 5000 mm/sec). The measurement procedure and accuracy obtained are discussed. The resonance method is described and two pieces of equipment mentioned. In the equipment made at TsKTI - IRPA in the USSR the turbine blades are made to vibrate in an electromagnetic field and the frequency of natural vibrations are determined from the frequency of the induced current. There are 4 figures and 1 table.

Card 1/1

L 19383-63

BDS

P/0008/63/000/04-70100/0103

88

ACCESSION NR: AP3001792

AUTHOR, Auerbach, Irena (Magister of Engineering)

TITLE: Problem of balancing rotors of turbine engines

SOURCE: Technika lotnicka, no: 4-5, 1963, 100-103

TOPIC TAGS: turbine engine balancing method; recommended balancing procedure
vibration source elimination, rotor sag, Chistyakov method

ABSTRACT: The major factors affecting accuracy in the balancing of turbine engines are discussed. The author proposes certain methods which ensure highly accurate balancing results. Hitherto-applied methods reduced vibration effects but failed to eliminate their causes. Application of the suggested methods makes it possible to reduce rotor sag and consequently to extend its life span. The following sequence of balancing operations is recommended: static balance of individual engine components; dynamic balance at two balancing planes carried out at low speed; final dynamic balance carried out at operating speeds and at additional balancing planes. The admissible unbalance is determined according to

Card 1/B1

L 19383-63

ACCESSION NR: AP3001792

Chistyakov /Abstractor's note: Chistyakov's method is formulated. The variations of the vibration amplitude obtained from balancing operations in a vacuum chamber are shown in Fig. 1 of Enclosure. Orig. art. has: 3 figures and 17 equations.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 21Jun63

ENCL: 01

SUB CODE: 00

NO REF Sov: 005

OTHER: 000

Card

2/82

AUERBACH, JERZY

Zasady namiarow radiolokacyjnych. (Wyd. 1.)

Warszawa, Poland, Panstwowe Wydawn. Naukowe, 1956. 58P

Monthly List of East European Accessions (EEAK) LC. Vol. 8, no. 7, July 1959

Uncl.

AUERBACH, J.

A conference and an exhibition of the American Institute of Radio Engineers in March 1957. p. 357.
(TELE-RADIO. Vol. 2, no. 8, Aug. 1957, Warszawa, Poland)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 12, Dec. 1957.
Uncl.

AUERBACH, J.

A visit to the Emerson Radio Co.; automatization of the mounting of radio receivers.

p. 497 (Tele-radio. Vol. 2, no. 11, Nov. 1957. Warszawa, Poland)

Monthly Index of East European Accessions (EEAI) LC. Vol. 7, no. 2,
February 1958

AUFRBACH, Jerzy, mgr inż.

Isotopes in the Polish industry. Pt. 1. Przegl techn 86 no.5:3, 5
31 Ja '65.

1. Deputy Plenipotentiary for Peaceful Use of Nuclear Energy, Warsaw.

AUERRBACH, Jerzy, mgr inz.

Isotopes in Polish industry. Pt.2. Przegl techn 86 no.6;3
7 F '65.

1. Deputy Government Plenipotentiary for Problems of Peaceful
Use of Nuclear Energy, Warsaw.

L 38349-66 EWT(m)

ACC NR: AP6027976

SOURCE CODE: GE/0025/66/009/005/0169/0176

30

B

AUTHOR: Auerbach, J.

ORG: none

TITLE: Nuclear research and nuclear technology in the Polish People's Republic.
State and development of nuclear-technological devices in the Polish People's Republic
SOURCE: Kernenergie, v. 9, no. 5, 1966, 169-176

TOPIC TAGS: nuclear research, nuclear engineering, nuclear physics apparatus, dosimeter
ABSTRACT: A review was made of nuclear-technological devices currently being manufactured in Poland or which are ready for production in the near future. The devices reported on include laboratory equipment, dosimetric apparatus, and industrial items used in isotope technology. The laboratory apparatus is designed on the module system wherever practicable. A list was given of typical components and assembled systems. Among the special devices discussed, a broad-band oscilloscope, a time-marker, a nanosecond pulse generator, a double-pulse generator, a stabilized high-voltage supply, and others were described in some detail. The various dosimetric devices were listed and the industrial apparatus was discussed. A total of 1457 devices were manufactured up to the fall of 1965. Some economic factors were discussed. Eleven photographs were presented. [JPRS: 36,845]

SUB CODE: 18 / SUHM DATE: 30Nov65

Card 1/1

AUERBAKH, E.

"Changes in the Nervous Apparatus of the Stomach in So-Called Hematogenous Gastritis and Experimental Azotemia." Cand Med Sci, Saratov Medical Inst, Saratov, 1954. (RZhBiol, No 4, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertation Defended at USSR Higher Educational Institutions.
(14)

AUERBAKH, F.S.
AUERRAKH4F8S8

600

1. AUERBAKH, F.S., CZHAPARIDZE, M.N.
2. USSR (600)
4. Heart—Diseases; Pregnancy - Complications of
7. Rheumatic heart diseases in pregnancy.
Akush. i gin., No. 1, 1952.
Kandidat Meditsinskikh Nauk Iz Gospital'noy
Terapevticheskoy Kliniki (Dir.-Prof. L.S. Shvarts)
- 9a. Monthly List of Russian Accessions, Library
of Congress, March 1952. UNCLASSIFIED.
i Akushersko-Ginekologicheskoy Kliniki (Dir.-Prof.
M.A. Daniakhiy) Pediatriceskogo Fakul'teta
Saratovskogo Meditsinskogo Instituta

AUERBAKH T.

"Sostoyaniye mekhanizatsii podzemnykh rabot na Veymarnskom i Alekseyevskom
rudnikakh", p. 25

Goryuchie Slantsy, No. 7, 1932

AERBAKH, T.

Learn a foreign language in three months! Znan.-sila 38 no.2:
12-14 F '63. (MIRA 16:3)
(Language and languages--Study and teaching)

AUERBAKH, T.D. (Moskva)

Importance of the knowledge of foreign languages for engineers.
Shvein.prom. no.5:14 S-0 '60. (MIRA 13:12)
(Languages and vocational opportunities)
(Engineers)

~~AUERBAKH, T. D.~~

Dictionary of foreign words. Shvein. prom. no.2:39 Mr-Ap '63.
(MIRA 16:8)

1. Zaveduyushchiy kafedroy inostrannykh yazykov Vsesoyuznogo
zaochnogo instituta tekstil'noy i lekkoj promyshlennosti.
(No subject headings)

AUERBAKH, T., dotsent

For a fast learning of languages. IUn.tekh. 7 no.5:74-77 My
'63. (MIRA 16:6)
(Languages, Modern--Study and teaching)

AUERBAKH, T., dotsent

Science, technology and languages. ИUn.tekh. 7 no.9:44-46 S
'62. (MIRA 16:6)
(Languages, Modern--Study and teaching)

AUERBAKH

AUERBAKH, V.M., inzh.; TARAKANOV, G.P., inzh.

Standardization of the working equipment is a means of increasing
the efficiency of excavators. Mekh. stroi. 15 no.1:6-8 Ja '58.
(Excavating machinery) (MIRA 11:1)

L 26161-66 EWP(h)/EWT(d)/EWP(1)

ACC NR: AP6006350

(A)

SOURCE CODE: UR/0413/66/000/002/0084/0084

AUTHORS: Rešnik, A. P.; Lobov, A. G.; Auerbakh, V. M.; Trofimov, A. P.; Yashin, K. A.; Vasil'chenko, N. N.

ORG: none

TITLE: A means of mounting upper sections of crane masts with the boom. Class 35,
No. 178071

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 84

TOPIC TAGS: crane, construction equipment

ABSTRACT: This Author Certificate describes the mounting of upper sections of crane masts with the boom. The upper sections are set by means of crane mechanisms which are on the lower section of the mast which is on a rotating platform. The leading end of the boom and the base of the supporting part of the mast are joined by a cable which, in turn, is fastened to the edge of the platform. Thus the elevation of the upper sections of the mast is secured by the boom through their turning relative to the place where the truss joins the platform (see Fig. 1).

Card 1/2

UDC: 621.873.25.002.72

L 26161-66

ACC NR: AP6006350

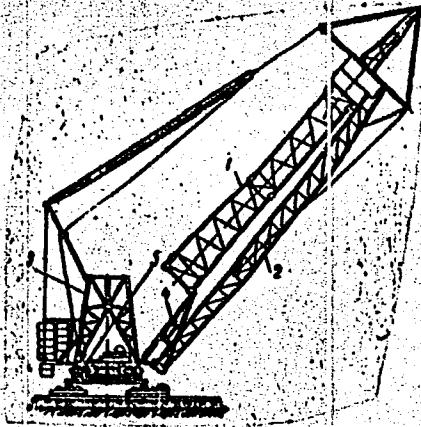


Fig. 1. 1 - upper sections of the mast;
2 - boom; 3 - lower section of the mast;
4 - truss; 5 - rotating crane platform.

Orig. art. has 1 figure.

SUB CODE: 13/

SUBM DATE: 18Oct63

Card 2/2 CC

AUERBAKH, V.M.

Experience in the utilization of walking tower cranes.
Transp. stroi. 15 no.9:23-26 S '65. (MIRA 18:11)

1. Glavnnyy konstruktor proyekta proyektno-konstruktorskogo
byuro Glavnogo upravleniya mekhanizatsii stroitel'nykh rabot
Ministerstva stroitel'stva RSFSR.

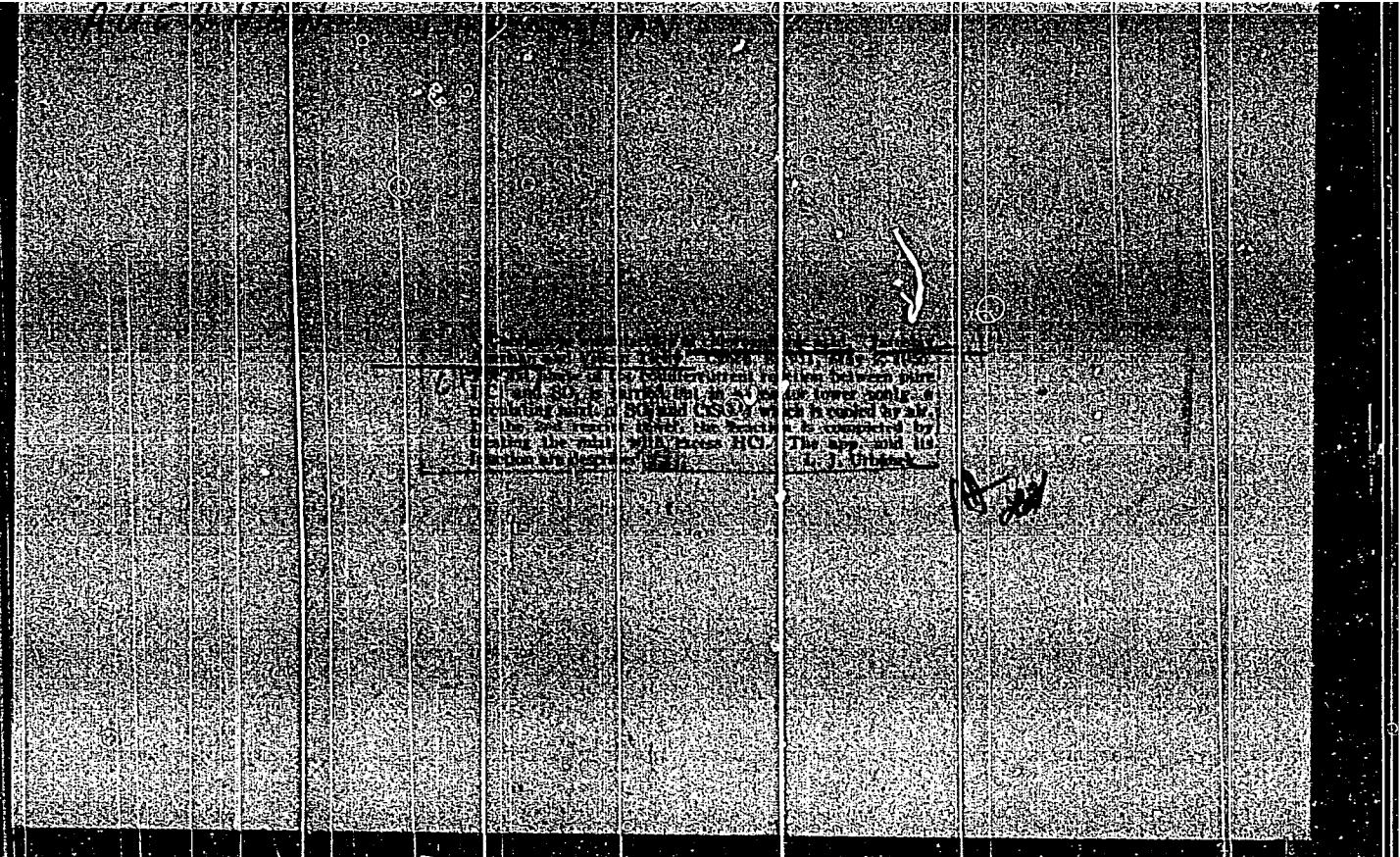
ABRAMOVICH, I. I., inzh.; AUERBAKH, V.M., inzh.; LOBOV, A.G., inzh.

"Building tower cranes" by I.IA.Kogan. Reviewed by I.I.Abramovich,
V.M.Auerbach, A.G.Lobov. Stroi.i dor.mashinostr. 4 no.5:38
My '59. (MIRA 12:7)

(Cranes, derricks, etc.)

"APPROVED FOR RELEASE: 06/05/2000

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AUERHAN, N.

101677
Dynamite mixed for Alfred Krueger's company
in Germany, made in West Berlin, name of
factory, West Berlin, 1967, A
system working with admittable berken, no berken with
needle, and
//

2

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0"

AUERHAN, J.

Distr: 4E2c(j)/4E3d

V-Trichlorobenzene from hexachlorocyclohexanes. Dionýz Vrgula, Zdeněk Sletá, and Jaroslav Auerhan. Czech. 92,749, Nov. 16, 1959. The title procedure is carried out in several steps at normal pressure with catalysis by alk. hydroxides. L. J. Urbaňák

1
1-SJ(JB)

2

gt

AUERHAN, J.

"21st Congress of the Communist Party of the Soviet Union and the development of Automation in the Soviet Union."

Auromatisace. Praha, Czechoslovakia. Vol. 2, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclassified

AUERHAN, J.

Central Committee of the Communist Party of the Soviet Union on the development
of automation. p. 289.

AUTOMATIZACE. Praha, Czechoslovakia. Vol. 2, no. 10, Oct. 1959.

Monthly list of East European Accessions (EEAI) LC, Vol. 9, no. 1, January 1960.

Uncl.

AUCHKHAN, Yan, ekonomist; GLYAZER, L., red.; DUDNICHENKO, E., mledshiy
red.; CHEPELEVA, O., tekhn.red.

[Automation and society] Avtomatizatsiya i obshchestvo. Moskva,
Izd-vo sotsial'no-ekon.lit-ry, 1960. 168 p. (MIRA 13:5)
(Automation)

26.2140

S/081/60/000/021/014/018
A005/A001

Translation from: Referativnyy zhurnal, Khimiya, 1960, No. 21, pp. 258-259,
85114.

AUTHORS: Auerhan, J., Matoušek, F.

TITLE: Automation Mixer of Liquid Reaction Components, Serving Simultaneously as Delivery Meter

PERIODICAL: Chekhol. pat. 86, 140 of 15.01.57

TEXT: The working principle is patented of an automatic mixer for continuous technological processes, in which liquid components must be mixed immediately before the feeding of the mixture into the reactor at a definite ratio and quantity. Each liquid component of the reaction is supplied by a pipe through valve 1 (see the figure) into an intermediate vessel 2 having a damping baffle plate 3. The liquid level height in vessel 2 is determined by the position of overflow 4, across which the excess of liquid is discarded into connector 5 and then into the stock bin. The mixer includes as many intermediate vessels 2 as the reaction mixture has components. Every vessel 2 has nozzle 6 into which the sealing needle 7 is slipping

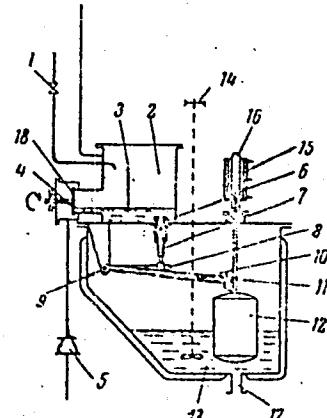
Card 1/3

4H

87674

S/081/60/000/021/014/018
AC05/A001**Automatic Mixer of Liquid Reaction Components, Serving Simultaneously as Delivery Meter**

controlling the nozzle free cross section at vertical displacement. Each needle 7 is connected through lever 8 to common shaft 9 connected, in its turn, by lever 10 to post 11 of float 12. From the individual vessels 2, the reaction components get through the corresponding nozzles 6 simultaneously and continuously into the general mixer 13 having stirrer 14 and a steam heating jacket. The mixture is kept in the mixer at a definite level controlled by float 12 with post 11. Post 11 carries at its upper end the iron core of the inductance pickup 15 insulated by pipe 16. Mixer 13 is connected through outlet 17 with the intake of the forcing pump supplying the mixture into the reaction chamber. Between the mixture quantity withdrawn by the pump from mixer 13 and the sum of the component quantities admitted into mixer 13 from the individual intermediate vessels 2, an equilibrium is always adjusted. A change in the mixture component ratio is obtained by the corresponding



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S/081/60/000/021/014/018
A005/A001

Automatic Mixer of Liquid Reaction Components, Serving Simultaneously as Delivery Meter

change in the liquid level height in each vessel 2 by turning disk 18 having opening 4 for the overflow. The pickup 15 is used for the automatic control of the pump output by acting on its drive. There is 1 figure.

V. Yelinek

Translator's note: This is the full translation of the original Russian abstract.

UH

Card 3/3

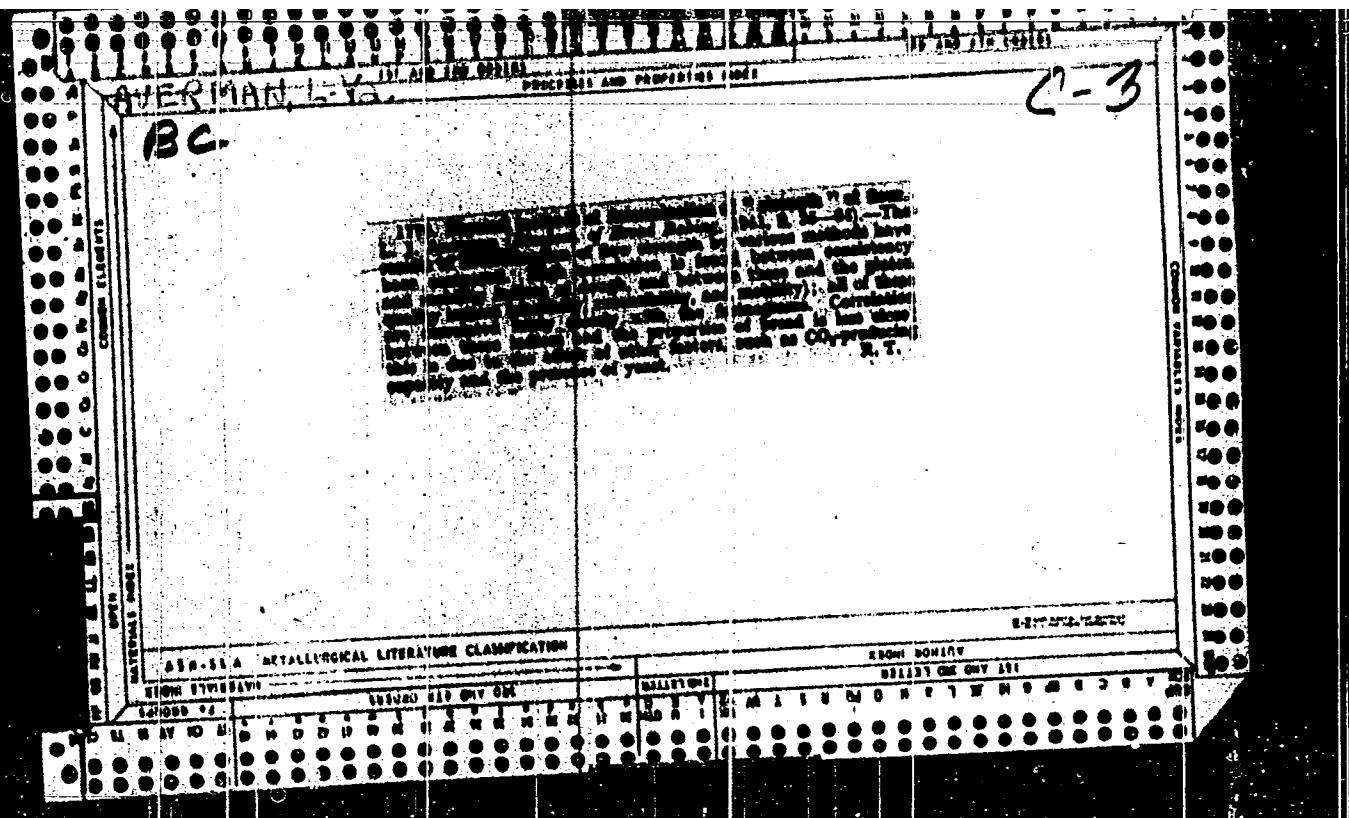
AUERBACH, Jerzy

Lectures in Polish industry. Pt.3. Przegl techn 86 no.7,2
14 F '65.

J. Deputy Government Plenipotentiary for Problems of Peaceful
Use of Nuclear Energy, Warsaw.

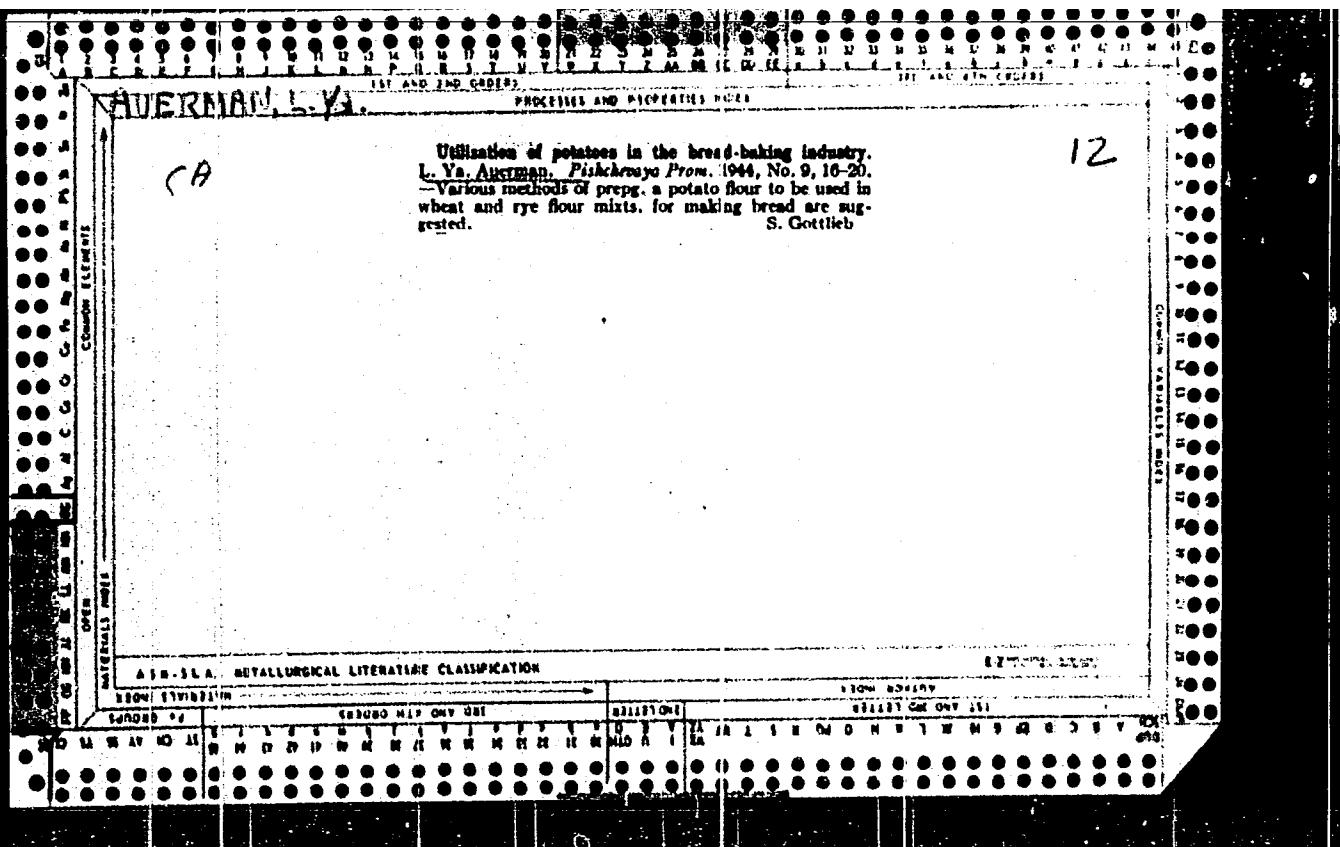
"APPROVED FOR RELEASE: 06/05/2000

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APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0"



KRETOVICH, V., TOKAREVA, R., AUERMAN, L., SMOLINA, N., KULMAN, A., and
BRANOPOL'SKAYA, R.

"Change in the Quality of Rye Flour During Storage," Dok, AN 48 No. 9, 1947

All-Union Sci.-Res. Inst. Bread Baking Ind. and Inst. Biochem im A.N. Bakh, Acad. Sci.
USSR

AUERMAN, L.

"Biochemistry of Ripening Rye,"

Biokhim., 12, No. 6, 1947

All-Union Sci. Res. Inst. of Bread Baking Ind.
Biochem. Inst. im A.N. Bakh, Acad. Sci. USSR,

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0

AUERMAN, L.

"Review of V.L. Kretovich's 'The Problem of the Nutritive Value of Bread',"
Biolhim., 14, No. 2., 1949.

APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0"

AUERMAN, I.Ya., professor, doktor tekhnicheskikh nauk; MIKULINSKAYA, L.R.,
kandidat tekhnicheskikh nauk.

Amylographic analysis of rye flour, dough and bread. Trudy MTIIPP
2:248-258 '52. (MIRA 9:2)
(Rye) (Starch)

Huerman, L.Ya.

LYKOV, A.V., professor, doktor tekhnicheskikh nauk; AUERMAN, L.Ya.,
professor, doktor tekhnicheskikh nauk.

Methods of making swieback. Trudy MTIIPP 2:97-114 '52.
(Bread) (MIRA 9:2)

~~AUERMAN, L. YA.~~

1. KRETOVICH, V. L. - TOKAREVA, R. R. - PETROVA, I. S. - DROZDOVA, T. V.
KUL'YAN, A. G. - BRANOPOL'SKAYA, R. A. - AUERMAN, L. YA. - SMOLINA, N. I.
2. USSR (600)
4. Wheat
7. Biochemical, colloid-chemical, and technological studies of the
maturing of wheat. Biokhim.zerna no. 1, 1952
9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

AUERMAN, L.Ya.

Chem Abstr v48

1-25-54

Food

Melanoidin formation and color of bread crust. L. Ya. Auerman, V. L. Kretovich, E. A. Alyakrinskaya, V. M. Bazaritova, and R. R. Tokareva (A. N. Bakhi Biochem. Inst. Acad. Sci. U.S.S.R., Moscow). *Doklady Akad. Nauk S.S.R.*, 92, 131-3(1953).—When wheat grain is dried at elevated temp. (150°) the protein-proteinase system undergoes profound changes: water-sol. N, raw gluten content, and its H₂O-absorbing power decline, with almost complete inactivation of the proteinases. The bread baked from the flour prep'd. from such grain has low porosity and high d., owing to poor gas retention. However, the crust of such bread is unusually light in color. This is explained by the lack of proteinase activity since this fact causes a lack of the necessary carbohydrate materials which act as raw materials for melanoidin formation which produces the normal crust color. When maltose, fructose, sucrose, and glycine were added to the deficient flour, the resulting bread had a more pigmented crust; glycine was particularly effective, and the full complement of glycine and one of the disaccharides gave normal color. Thus the color is produced by interaction of reducing sugars with products of protein hydrolysis. G. M. Kosolapoff

AUERMAN, L. Ya.

Vitamins B₁, B₂, and PP in bread from different kinds of flour. V. N. Bubkin, L. Ya. Auerman, Z. I. Zaliseva, L. S. Kutsseva, V. P. Pushovskii, and V. V. Shechabtenko (A. N. Bakh Inst. Biochem. and All-Union Sci. Research Inst. Bread-Baking Ind., Moscow). *Voprosy Pishchev. i Tekhniki* 12, No. 4, 29-34 (1953).—Of the vitamins naturally occurring in the flour, bread retains for rye flour and wheat flour, resp., B₁ 73 and 80-8%, B₂ 88 and 64-78%, PP 95-100 and 95-100%. The retention of vitamins B₁ and B₂ by wheat bread varies with the grade of the flour. Of added vitamins, rye bread retains 1/4 of B₁, B₂, and PP; wheat bread retains B₁ 75-80, B₂ 50-64, and PP 60-9%. Part of the vitamin B₁ in the flour is firmly combined with protein, and may escape estn. Fermentation of the dough frees the vitamin B₂, and thus seemingly high figures are obtained for bread, masking the deterioration. Rye and wheat contain 3 mg./kg. of vitamin B₁, instead of the previously reported 1 mg./kg. For an adult engaged in light labor it is necessary to enrich all sorts of bread with vitamin B₁; rye bread with vitamin PP, and some kinds of wheat bread with vitamins B₁ and PP. A. Mirkin

AUERMAN,	Y.M.		
M.D.	Use of emulsifiers in the bread Y.A. Auerman. Nauka i Tekhnika (Moscow: Gidrograf), 1953, 134-42 1955. No. 1460.—Use of 0.5-2.0 trates emulsifier increased the improved its structure, and poro and appearance, regarding stale goods.	and pastry industry. L. Referat. Zhur., Kishin of phosphatide concen al. yield of bread, greatly ity, as well as the aroma ea of bread and bakery M. Hesch	

AUERMAN, I. YA.

Auerman, I. Ya., -- "Investigation of the Bakery Characteristics of Barley." Cand Tech Sci, Moscow Technological Inst of the Food Industry, 27 Jan 54. (Vechernaya Moskva, 15 Jan 54)

So: SUM 168, 22 July 1954

AUERMAN, L. Ya.

USSR

Preservability and content of vitamins B₁, B₂, and PP in bread from various grades of flour. L. Ya. Auerman, V. N. Bubkin, Z. I. Zaitseva, I. S. Kudryava, V. P. Tikhonina, and V. V. Shekherbatko (A. N. Bakulev Inst. Biofizika, Acad. Sci. U.S.S.R., Moscow). *Biofizika Zerna*, Akad. Nauk S.S.R., *Sbornik* 2, 193-201 (1954).—The natural content of vitamin B₁ in the flour is retained to 70% in the bread made from rye wholemeal flour, 80% for wheat wholemeal flour, and 80-85% for wheat flour of 1st and 2nd grades. Natural vitamin B₂ is preserved in the bread to the extent of 88, 78, and 64-9%, resp. Vitamin PP is almost completely preserved (95-100%). The vitamins added to the flour artificially show lesser preservability when baked into bread: 60% in rye for all 3 vitamins, while in wheat it is 75-80% for vitamin B₁, 80-9% for vitamin PP, and 50-64% for vitamin B₂. G. M. Knobell

LYKOV, A.V.; AUERMAN, L.Ya.; GINZBURG, A.S.

Investigating the heat and mass exchange in capillary-porous bodies with methods based on the theory of similitude as applied to the processes of drying and baking. Trudy MTIPP 4:5-18 '56.

(MLRA 9:10)

(Heat--Transmission) (Baking)

AUERMAN, L.Ya.; MASLIKHOVA, G.D.; OSTROVSKIY, Ya.G.

Determining the baking quality of purified whole rye flour by the
electroconductivity of the water-flour suspension. Trudy MTIPP 4:
19-21 '56. (MLRA 9:10)

(Flour) (Rye)

MYS'KOV, V.A.; AUERMAN, L.Ya.

Baking quality of break and bolted rye flour and methods for
determining it. Trudy MTIPP 4:22-33 '56. (MLRA 9:10)

(Flour) (Rye)

LYUSHINSKAYA, I.I.; AUERMAN, L.Ya.

Improving the baking quality of germinated rye by drying.
Trudy MTIPP 4:34-43 '56.

(MLRA 9:10)

(Rye) (Grain--Drying)

AUERMAN, L. YA.

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63536

Author: Kuramshin, Yu. N., Auerman, L. Ya.

Institution: None

Title: Comparative Experimental Evaluation of Methods for Determining the Bread-Making Quality of Pressed Yeast

Original
Periodical: Tr. Mosk. tekhnol. in-ta pishch. prom-sti, 1956, No 4, 44-50

Abstract: Comparative study of 6 methods of evaluating the quality of pressed yeast: (1) Determination of leavening capacity of yeast according to GOST 171-51; (2) Same, according to time of a 4-fold rising of the dough in a pan to a definite height (Berlin method); (3) Same, according to the rising of a dough ball in water (method of A. I. Ostrovskiy); (4) Same, according to volume increase of dough in a measuring cylinder (Rostov method); (5) Determination of fermentation activity of yeast by gas formation in water-flour medium;

Card 1/2

USSR/Chemical Technology - Chemical Products and Their Application. Fermentation Industry, I-27

Abst Journal: Referat Zhur - Khimiya, No 19, 1956, 63536

Abstract: (6) Laboratory baking tests (volume and quality of the bread). The comparative studies were conducted with samples of wheat flour in 2 series of experiments: with a sample of second grade flour of medium bread-making quality and with samples of flour of various grades having different bread-making quality ratings. The first series of experiments showed that most sensitive methods are 4, 1, 3. Test samples of bread yielded no clearly defined results for evaluation of yeast quality. The second series of experiments showed the influence of bread-making properties of the flour on the indexes of yeast quality, which is especially pronounced on determination of leavening capacity according to methods 2 and 4. The same as in the preceding instance test samples of bread were found to be unsuited for an evaluation of yeast quality. On the basis of the data obtained it is recommended to use methods 1, 3, and 5 for evaluating the quality of the yeast.

Card 2/2

KURAMSHIN, Yu.N.; AUERMAN, L.Ya.; OSTROVSKIY, A.I.

Determining the baking quality of compressed yeast by the
rising of the dough ball to the surface of water. Trudy
MTIPP 4:51-53 '56. (MLRA 9:10)

(Yeast)

AUERMAN, L.Ya.; GINZBURG, A.G.

Preliminary activation of compressed yeast in bread baking.
Trudy MTIPP 4:54-57 '56. (MLRA 9:10)

(Yeast)

OSTROVSKIY, Ya.G.; AUERMAN, L.Ya.; ZHURAVLEV, N.N.; TETREVYATNIKOVA, I.P.;
CHISTOVA, G.A.

Relationship between the final rising period and the
electroconductivity of the dough. Trudy MTIPP 4:58-51
'56.

(MLRA 9:10)

(Dough)

AUERMAN, L. M.

AUERMAN, L. M.; OSTROVSKIY, Ya.G.; GINZBURG, A.S.; ZHURAVLEV, N.N.;
FALUNINA, Z.F.; MINAYENKOVA, V.S.; KOZHENNIKOVA, Ye.P.;
SUVOROVA, M.A.

Use of electric contact heating for preparing scalded wheat
flour mash and for investigating the saccharification of mash.
Trudy MTIPP 4:62-70 '56. (MIRA 9:10)

(Dough) (Starch) (Amylases)

"APPROVED FOR RELEASE: 06/05/2000

CIA-RDP86-00513R000102510020-0

AUERMAN, L.Ya.; OSTROVSKIY, Ya.G.; GINZBURG, A.S.; ZHURAVLEV, N.N.;
KHEGHASHVILI, A.Z.; KVETNYY, F.M.

Zwieback from rye bread baked by electric contact heating.
Trudy MTIPP 4:82-85 '56.

(MLRA 9:10)

(Bread)

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YENIKEYEVA, N.G.; AUERMAN, L.Ya.

Amylographic investigation of bread staling. Trudy MTIPP 4:
105-117 '56. (MLRA 9:10)

(Bread) (Starch)

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"APPROVED FOR RELEASE: 06/05/2000

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AUERMAN, L.Ya.; RAKHMANKULOVA, R.G.

Organoleptic methods for evaluating the degree of freshness of
bread. Trudy MTIPP 4:118-120 '56. (MLRA 9:10)

(Bread)

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AUERMAN, I. L.; RAKHMANKULOVA, R.G.; BAZULINA, N.F.; TYURINA, G.V.;
KHOLINA, L.S.

Determining the degree of staleness of wheat bread by the
compressibility and crumbling capacity of the soft part of the
bread. Trudy MTIPP 4:121-126 '56. (MLRA 9:10)

(Bread)

SHCHEHBATENKO, V.V.; AUERMAN, L.Ya.; GOCOBERIDZE, N.I.

Losses of dry matter and moisture in the process of bread
manufacture. Trudy MTIPP 4:127-132 '56. (MLRA 9:10)

(Bread)

GOGOBERIDZE, N.I.; AUERMAN, L.Ya.; SHCHERBATENKO, V.V.

Investigating the effect of the heating kinetics of baking on
the quality of rye bread. Trudy MTIPP 4:133-146 '56. (MLRA 9:10)

(Bread) (Baking)

AUERMAN, L.Ya. professor; TROSHCHENKO, T.K.

Conference on the problems of baking in Detmold (West Germany).
Khleb. i kond. prom. l no.1:46-48 '57. (MIRA 10:4)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti
(for Auerman).
2. Ministerstvo promyshlennosti prodovol'stvennykh tovarov USSR
(for Troshchenko).
(Detmold, Germany---Baking)

AUERMAN, L.Ya.; RAKHMANKULOVA, R.G.

Protein substances in the crumb of bread during staling. Khleb. i
konf., prom. 1 no.2:22-26 P '57. (MIRA 10:4)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Proteins) (Bread)

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CIA-RDP86-00513R000102510020-0

RAHMANKULOVA, R.G.; AUERMAN, L.Y.

Preserving the freshness of bread by storing it in the frozen
state. Khleb.i kond.prom. 1 no.6:3-5 Je '57. (MIRA 10:8)

1.Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Bread--Storage)

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CIA-RDP86-00513R000102510020-0"

AUERMAN, L.Ya.
AUERMAN, L.Ya.

Review of the book "Baking" [in German] by W.Wernicke. Khleb.i
kond.prom. l no.10:47-48 0 '57. (MIRA 10:11)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Baking) (Wernicke, W.)

AUERMAN, L.Ya.; ZAPARINA, Ye.A.; STEPANOVA, E.I.; FEDOROV, G.S.

Effect of various fats on bread quality. Izv.vys.ucheb.zav.pishch.
tekhn. no.4:74-77 '58. (MIRA 11:11)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti,
Kafedra tekhnologii khlebopekarnogo proizvodstva, Spetslaboratoriya
tekhnologii khlebopecheniya.
(Bread) (Oils and fats, Edible)

AUERMAN, I.Ya.; BESCHASTNOV, A.G.

Changes in different types of rye flour during storage after
milling. Izv.vys.ucheb.zav.; pishch.tekh. no.2:22-29 '59.
(MIRA 12:8)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlen-
nosti.

(Flour--Storage)

AUERMAN, L.Ya.; BESCHASTNOV, A.G.

Changes in the biochemical and technological properties of
stored rye flour after milling. Izv.vys,ucheb.zav.; pishch.
tekhn. no.6:6-11 '59. (MIRA 13:5)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
Kafedra tekhnologii khleboppekarnogo proizvodstva.
(Rye) (Flour--Storage)

AUERMAN, I.Ya.

Determining the quality of gluten by means of a penetrometer.
Izv.vys.ucheb.zav.; pishch.tekh. no.6:116-122 '59.
(muka 13:5)

I. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti. Kafedra tekhnologii khlebopекarnogo proizvodstva.
(Gluten)

AUERMAN, L.Y., doktor tekhn. nauk

Automatic penetrometer. Masl.-zhir.prom. 25 no. 5:16-17 '53.

(KIRA 12:?)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
(Oil industries---Equipment and supplies)

ROSLYAKOVA, O.I.; GINZBURG, A.S.; AUERMAN, L.Ya.

Infrared radiation as a method for the intensification of the
baking process. Trudy MTIPP 16:30-42 '60. (MIRA 16:6)

(Baking)

(Infrared rays--Industrial applications)

AUERMAN, L.; ATANASOVA, I.; VORONTSOV, P.

Roller mill for grinding small grain samples in laboratories.
Muk.-elev. prom. 26 no. 12:18-19 D '60. (MIRA 13:12)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti
(for Auerman, Atanasova). 2. Vsesoyuznaya shkola masterov-
krupchatnikov (for Vorontsov).
(Grain-milling machinery)

AUERMAN, L.Ya.; PUCHKOVA, L.I.; PROKUSHENKOVA, L.I.

Study of the surface active properties of phosphatide concentrates.
Izv.vys.ucheb.zav.pishch.tekh.no.5:59-62 '60. (MIRA 13:12)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti.
Kafedra tekhnologii khlebopekarnogo proizvodstva.
(Phosphatide) (Surface tension)

AUERMAN, L.Ya.; SUVOROVA, M.A.; TIKHOMIROVA, L.V.

Determining the compressibility of bread crumb on a penetrometer.
Izv. vys. ucheb. zav.; pishch. tekhn. no. 125-198 '60. (MIRA 14:8)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promysh-
lennosti, Kafedra tekhnologii khlebopекarnogo proizvodstva.
(Bread) (Penetrometers)

SHKVARKINA, T.I.; KOROVIN, F.N.; AUERMAN, L.Ya.; ZHIGUNOVA, V.V.

More accurate specification and development of the methods for
testing the baking properties of flour. Trudy TSNIIKHP no.8:111-
123 '60. (MIRA 15:8)

(Flour—Testing)

ROSLYAKOVA, O.I.; GINZBURG, A.S.; AUKHMAN, L.Ya.

Investigating the bread baking process in the electric field
of high frequency currents combined with the application of
infrared rays. Trudy MTIPP 16:94-100 '60. (MIRA 16:6)

(Bread) (Electric ovens)
(Infrared rays—Industrial applications)

AUERMAN, L.Ya.; PUCHKOVA, L.I.; LAZAREVA, L.V.

Surface active properties of phosphatide concentrate in interaction
with flour, gluten, and starch. Izv. vys. ucheb. zav.; pishch. tekhn.
no.4:75-78 '61. (MIRA 14:8)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti,
kafedra tekhnologii khlebopекarnogo proizvodstva.
(Phosphatides) (Flcur)

AUERMAN, L.Ya.; YAKOVLEVA, L.V.

Determining baking properties of rye flour with a penetrometer.
Izv.vys.ucheb.zav.; pishch. tekhn. no.6:135-137 '61. (MIRA 15:2)

1. Moskovskiy tekhnologicheskiy institut pishchevoy promyshlennosti,
kafedra tekhnologii khlebopekarnogo proizvodstva.
(Rye)(Bakers and bakeries--Equipment and supplies)

AUERMAN, L.Ya.

Common problems should be solved in common. NTO 3 no.4:7
Ap '61. (MIRA 14:3)

1. Predsedatel' TSentral'nogo pravleniya Nauchno-tehnicheskikh
obshchestv pishehvoy promyshlennosti.
(Agriculture)

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GORYACHEVA, A.F.; SHCHERBATEKO, V.V.; AUERMAN, L.Ya.

Effect of the degree of mechanical processing of the dough on its ripening time and bread quality. Trudy TSNIIKHP no.10:72-81 '62.
(MIRA 18:2)

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AUERMAN, L., prof., doktor tekhn. nauk

For the good of men. NTO 5 no. 12:11-12 D '63. (MIRA 17:8)

1. Predsedatel' TSentral'nogo pravleniya Nauchno-tehnicheskogo
obshchestva pishchevoy promyshlennosti.